



SANTA ANA WATERSHED PROJECT AUTHORITY



Burn Impacts on Water Supply/Water Quality

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California Biodiversity Council
Lake Arrowhead, California
June 17, 2004

The Santa Ana River Watershed



Growth

- Four counties are among the 13 largest counties in the United States
- 2002-2003 California Population Increase Rankings
 1. Los Angeles
 2. Riverside
 3. San Bernardino
 4. Orange
- The Three-County Area shows some of the fastest growth in the country



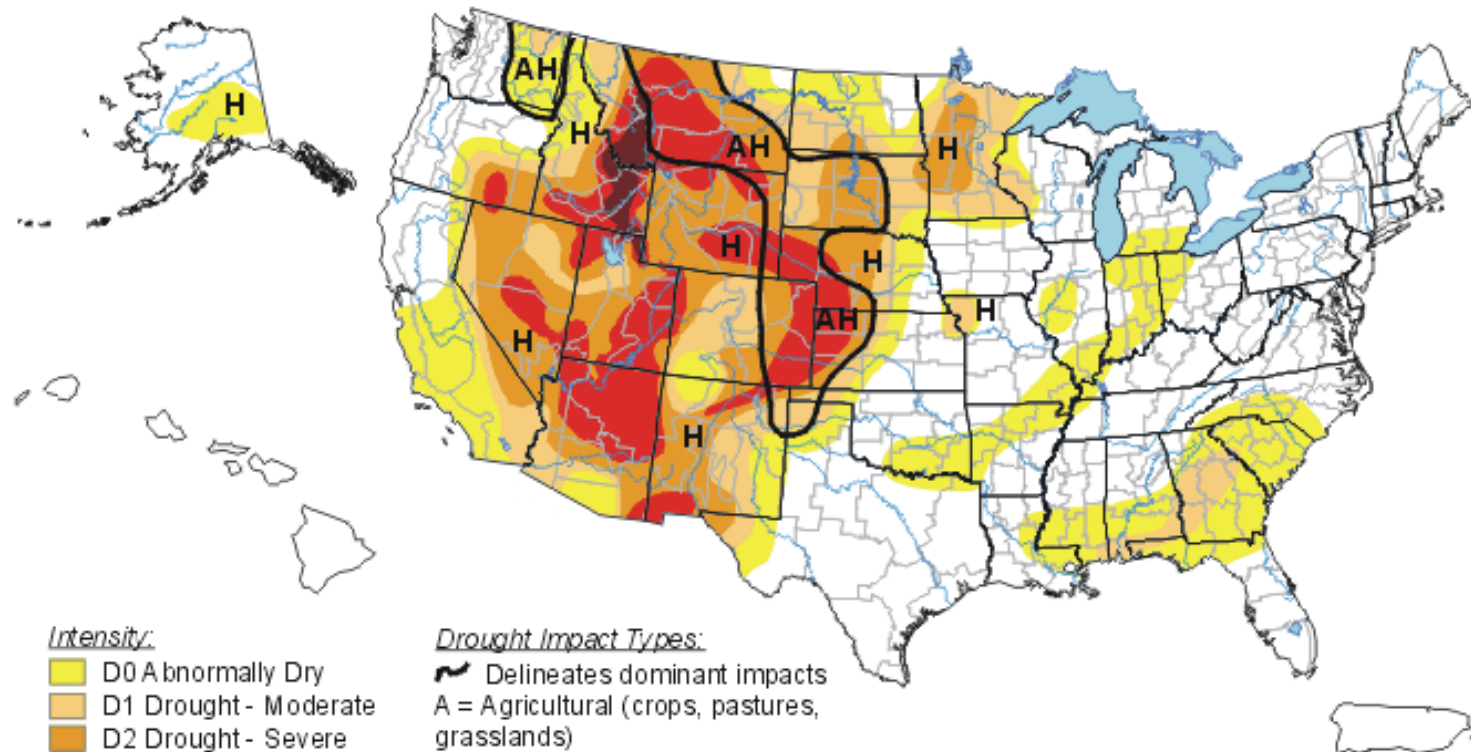
Environmental Conditions

Inland
Empire
precipitation
is 10" below
normal for
2003-2004
winter

U.S. Drought Monitor

April 20, 2004

Valid 8 a.m. EDT



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:

- ~ Delineates dominant impacts
- A = Agricultural (crops, pastures, grasslands)
- H = Hydrological (water)
- (No type = Both impacts)

*The Drought Monitor focuses on broad-scale conditions.
Local conditions may vary. See accompanying text summary
for forecast statements.*

<http://drought.unl.edu/dm>



Released Thursday, April 22, 2004

Author: Michael Hayes, NDMC



October 2003 Wildfires





Burn Severity

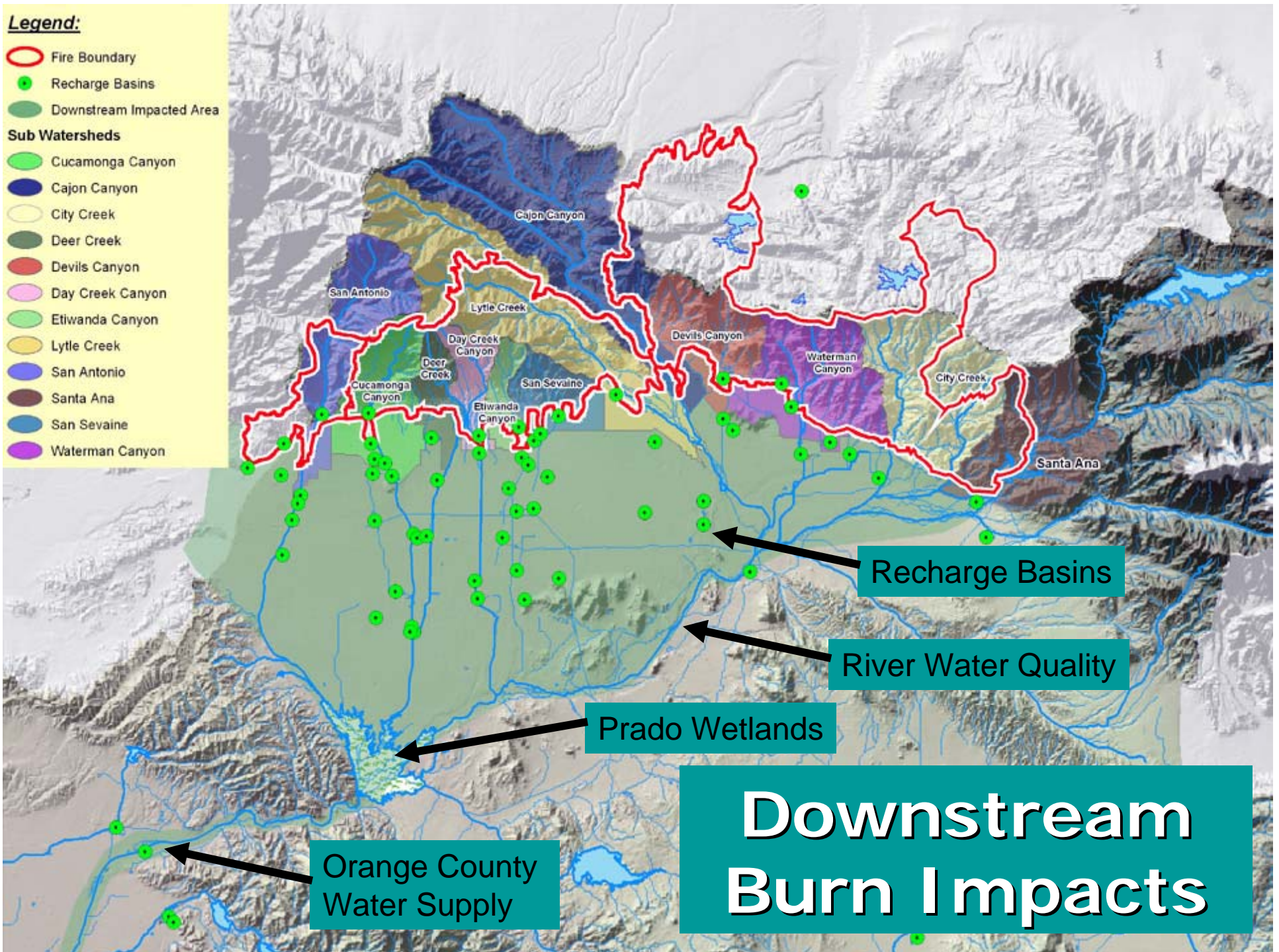
Fire	Total Burn Area	Burn Area in Watershed	High Severity	Moderate Severity	Low Severity
<i>Old Fire</i>	93,000 ac	61,000 ac	39,000 ac	33,200 ac	17,000 ac
<i>Grand Prix Fire</i>	49,000 ac	49,000 ac	14,200 ac	14,100 ac	11,400 ac
<i>Padua Fire</i>	10,800 ac	7,200 ac	Unknown	Unknown	Unknown
<i>Total</i>	152,800 ac	117,200 ac	53,200 ac	47,300 ac	28,400 ac

Legend:

- Fire Boundary
- Recharge Basins
- Downstream Impacted Area

Sub Watersheds

- Cucamonga Canyon
- Cajon Canyon
- City Creek
- Deer Creek
- Devils Canyon
- Day Creek Canyon
- Etiwanda Canyon
- Lytle Creek
- San Antonio
- Santa Ana
- San Sevaine
- Waterman Canyon



Flooded Recharge Basins



Clean-up in Day Creek





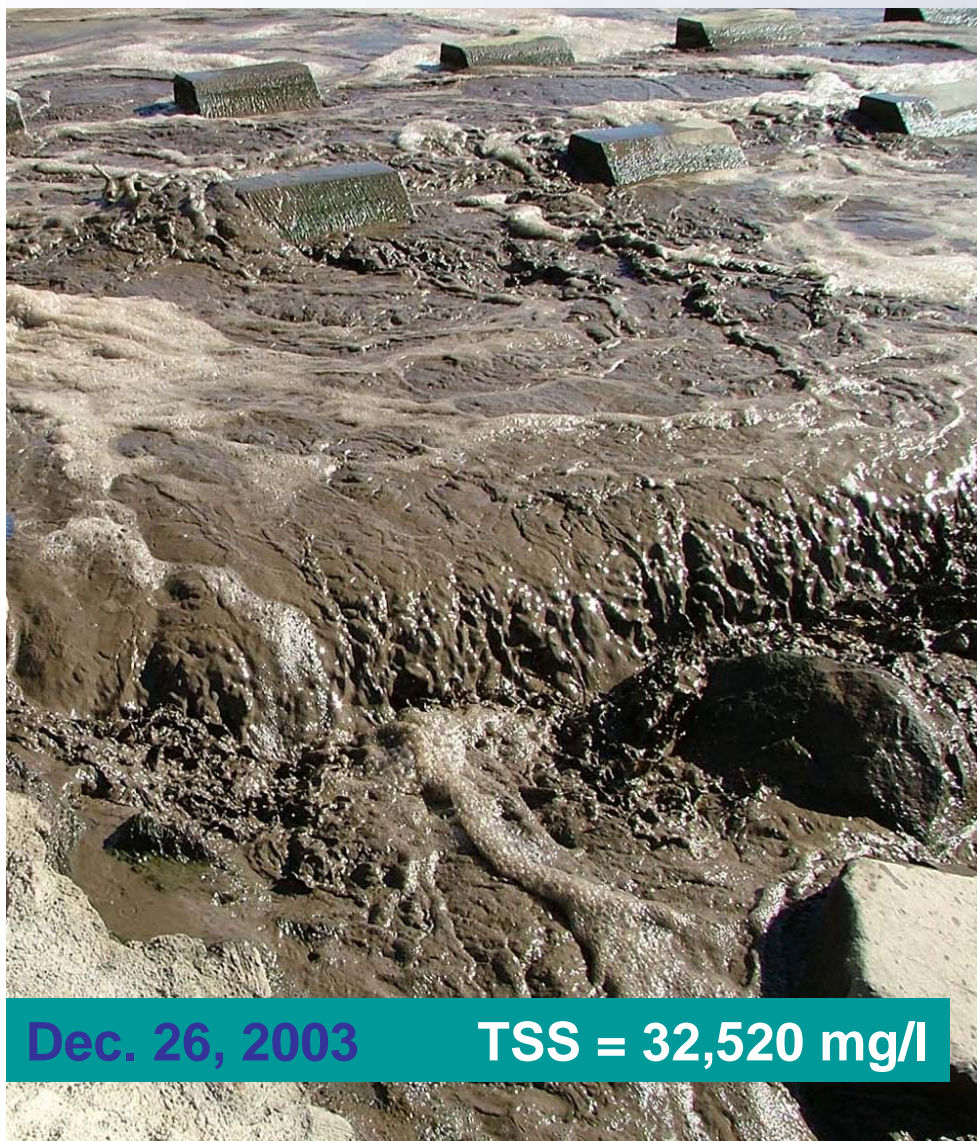
**Storm
Debris &
Erosion**

**Santa Ana River at Imperial Highway:
Flows after Christmas Storm
OCWD Released 750 acre-feet
To the Ocean**



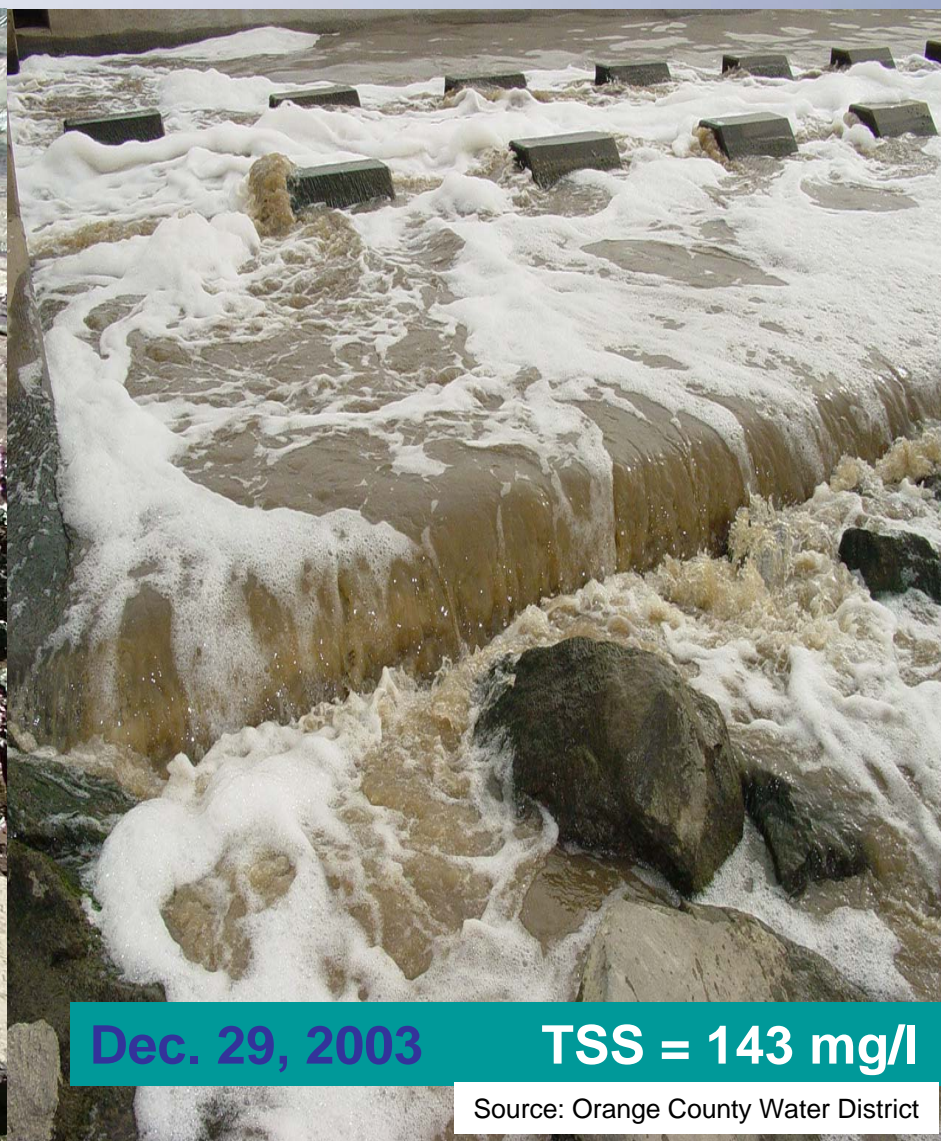


Below Imperial Dam



Dec. 26, 2003

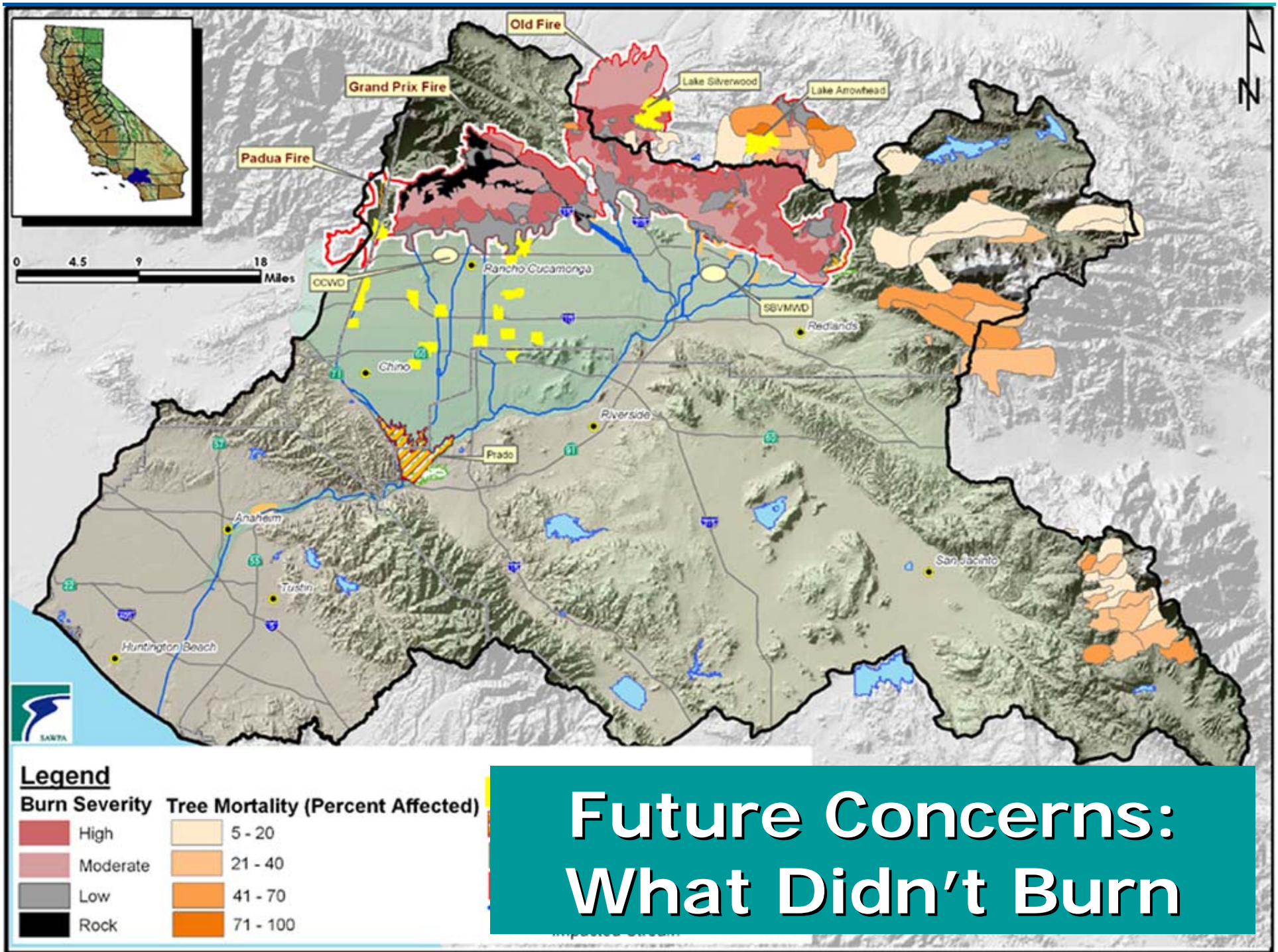
TSS = 32,520 mg/l



Dec. 29, 2003

TSS = 143 mg/l

Source: Orange County Water District





For further information

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- **Web Site**
 - www.sawpa.org